

☐ Generate Collection

L1: Entry 51 of 95

File: USPT

Aug 21, 2001

DOCUMENT-IDENTIFIER: US 6277635 B1

TITLE: Use of interleukin-10 to produce a population of suppressor cells

Detailed Description Text (148):

Next was analyzed whether the IL-10-induced anergy reflected a direct effect of IL-10 on CD4.sup.+ T cells. For this purpose, highly purified peripheral blood CD4.sup.+ T cells were activated by crosslinked anti-CD3 mAbs, in the presence or absence of exogenous IL-10 for 10 days. A direct effect of IL-10 on CD4.sup.+ T cells proliferation was observed (de Waal Malefyt, et al., J. Immunol. 150:4754-4765 (1993); and Taga, et al., Blood 81:2964-2971 (1993)) and this inhibitory effect was comparable to that induced by anti-CD25 mAbs (FIG. 9A). Activation of the CD4.sup.+ T cells in the presence of IL-10 resulted in a profound state of T-cell unresponsiveness, which could not be reversed by exogenous IL-2, or anti-CD28 mAbs (FIG. 9B). However, anergic cells proliferated normally in response to stimulation by Ca.sup.2+ ionophore and PMA. These results indicate that IL-10 induces an anergic state in CD4.sup.+ T cells, but that these cells respond normally to signals circumventing TCR activation. This induction of anergy is IL-10-specific, similarly to IL-10 induced T-cell unresponsiveness to alloantigens, and not related to inhibition of cell proliferation, since CD4.sup.+ T cells incubated in the presence of anti-CD25 mAbs for 10 days proliferated normally in response to restimulation with crosslinked anti-CD3 mAbs. The induction of anergy by IL-10 was dose-dependent with maximal effects observed at 100 U/ml (FIG. 10). Cells that had been activated by anti-CD3 mAbs and cultured in the presence or absence of IL-10 for 10 days were in a resting state and no apoptotic cell death was observed in the control or IL-10 treated cell cultures. Thus, IL-10 induces a comparable state of T-cell anergy in alloantigen-specific and anti-CD3 stimulated CD4.sup.+ T cells.

Detailed Description Text (150):

To determine the kinetics of induction of T-cell anergy, CD4.sup.+ T cells were activated with crosslinked anti-CD3 mAbs in the presence or absence of IL-10 and restimulated at different time points after initiation of the cultures (FIG. 11). CD4.sup.+ T cells cultured in the presence of IL-10 for only 3 days already failed to proliferate in response to reactivation by crosslinked anti-CD3 mAbs. Interestingly, the anergic state of these cells could still be reversed by exogenous IL-2 (20 U/ml) or anti-CD28 (10 µg/ml). In contrast, incubation of the T cells with IL-10 for 9-10 days resulted in a complete state of anergy, which could not be reversed, either by the addition of IL-2 or anti-CD28 mAbs. These results indicate that T cells activated through their TCR/CD3 complexes in the presence of IL-10 acquire different degrees of unresponsiveness, depending on the time periods they had been exposed to IL-10. This indicates that the period of IL-10 exposure will be very important in the effectiveness of suppression.

Detailed Description Text (152):

To determine the duration of the IL-10 induced anergic state in CD4.sup.+ T cells after removal of IL-10, the cells were activated with crosslinked anti-CD3 mAbs in the presence or absence of IL-10 for 10 days. After this incubation period, the cells were washed and recultured for 24 days in the presence of low concentrations (2 U/ml) of exogenous IL-2, for optimal maintenance of the T cells over prolonged culture periods, but in the absence of IL-10. These T cells were collected every other day during the culture period, washed, and restimulated with anti-CD3 mAbs. T cells that previously had been incubated with IL-10 failed to proliferate even 24 days after removal of IL-10. In contrast, control CD4.sup.+ T cells that had been activated by anti-CD3 mAbs in the absence of IL-10, and maintained in the absence of IL-10 for 24 days, proliferated normally in response to stimulation with anti-CD3 mAbs. In addition, the unresponsiveness observed after culturing the IL-10 treated cells for 24 days could not be reversed by IL-2 (20 U/ml) or anti-CD28 (10 µg/ml)

mAbs. These results indicate that IL-10 induced T-cell anergy is profound and long lasting.

Detailed Description Text (161):

The present study shows that human peripheral blood CD4.sup.+ T cells activated by allogeneic monocytes in the presence of IL-10 for 10 days were rendered unresponsive in an antigen-specific fashion. These unresponsive CD4.sup.+ T cells failed to proliferate and to produce cytokines when restimulated by the same allogeneic monocytes. However, these T-cell populations proliferated normally in response to third party alloantigens. A comparable state of T-cell anergy was induced following activation of CD4.sup.+ T cells by anti-CD3 mAbs in the presence of IL-10. The IL-10 induced anergy was dose-dependent and lasted for more than 24 days after withdrawal of IL-10, which was the maximal time period analyzed. Furthermore the anergic state could not be reversed by exogenous IL-2, or the addition of anti-CD28 mAbs. In addition, T-cell anergy could not be induced by stimulation with allogeneic monocytes, or anti-CD3 mAbs in the presence of anti-IL-2 receptor mAbs. These results indicate that T-cell anergy is specifically induced by IL-10 and is not simply related to down regulation of IL-2 production by these cells.

Detailed Description Text (163):

On the other hand, CD4.sup.+ T cells energized by IL-10 share many characteristics with anergic T cells described in murine models of anergy induced by lack of costimulatory signals. See De Silva, et al., J. Immunol. 147:3261-3267 (1991); Schwartz, Science 248:1349-1356 (1990); Suzuki, et al., Int. Immunol. 7:37-43 (1995); and Ramsdell and Fowlkes, Science 257:1130-1134 (1992). Both these forms of anergic cells failed to proliferate and to produce IL-2, but they had a normal expression of CD3 or CD28 surface molecules, and normal calcium fluxes after mobilization of the TCR/CD3 complex. See Schwartz, Science 248:1349-1356 (1990). However, T-cell anergy induced by IL-10 is much more profound than that described in these murine models, since the proliferative response of anergic T cells cannot be restored by addition of IL-2 or anti-CD28 mAbs. Furthermore, not only IL-2 production, but also the production, upon subsequent stimulation, of IFN-.gamma., IL-5, IL-10, TNF-.alpha., and GM-CSF by these anergic cells was impaired. Therefore, induction of T-cell anergy by IL-10 is not simply due to inhibition of IL-2 production and prevention of productive CD28-CD80/CD86 interactions. IL-10 energized T cells are also different from T cells that undergo apoptosis or energized T cells able to secrete cytokines in the absence of proliferation. See Jenkins, Immunol. Today 132:69-73 (1992); and Groux, et al., Eur. J. Immunol. 23:1623-1629 (1993). In fact, no significant cell loss by apoptosis was observed in the anergic T cells cultured in IL-10 and the anergic T cells were viable as proven by the normal proliferation after stimulation with Ca.sup.2+ ionophore and PMA.

Detailed Description Text (172):

Table 7 shows the cytokine production profile of Th3, Th0, Th1, and Th2 clones obtained from anergic cell populations of 2 different donors. The various T-cell clones were collected 12 days after stimulation with an irradiated feeder cell mixture+PMA and restimulated by a mixture of anti-CD3 and anti-CD28 mAbs for 24 hrs. Cytokine production (mean.+-.SD) is expressed as pg/10.sup.6 cells/ml. The characteristic cytokine production profile of Th3 clones is shown: no significant production of IL-2 and IL-4, but very high levels of IL-10 production. In addition, these cells produce IL-5 and IFN-.gamma. and TNF-.alpha.. This cytokine production profile is clearly different from that of the Th0, Th1, and Th2 clones obtained from anergized or non-anergized control T-cell populations.

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IMMOBILISATE.DWPI,EPAB,JPAB,USPT.	38
IMMOBILISATED.DWPI,EPAB,JPAB,USPT.	1
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IMMOBILISATE:.DWPI,EPAB,JPAB,USPT.	2
IMMOBILISATIONIN.DWPI,EPAB,JPAB,USPT.	1
(L3 AND (IMMOBILIS\$ OR IMMOBILIZ\$)).USPT,JPAB,EPAB,DWPI.	102

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<u>L3</u>	(cd28) same (okt3 or cd3) same (cultur\$ or stimulat\$) and ('t-cell\$' or 't-lymphocyte\$')	181	<u>L3</u>
<i>DB=JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<u>L2</u>	(cd28) same (okt3 or cd3) same (cultur\$ or stimulat\$) same ('t-cell\$' or 't-lymphocyte\$')	7	<u>L2</u>
<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>			
<u>L1</u>	(cd28) same (okt3 or cd3) same (cultur\$ or stimulat\$) same ('t-cell\$' or 't-lymphocyte\$')	95	<u>L1</u>

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IMMOBILISATION.DWPI,EPAB,JPAB,USPT.	1
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IMMOBILISABLEBY.DWPI,EPAB,JPAB,USPT.	1
IMMOBILISATION.DWPI,EPAB,JPAB,USPT.	1
IMMOBILISATE.DWPI,EPAB,JPAB,USPT.	38
IMMOBILISATED.DWPI,EPAB,JPAB,USPT.	1
IMMOBILISATES.DWPI,EPAB,JPAB,USPT.	16
IMMOBILISATE:.DWPI,EPAB,JPAB,USPT.	2
IMMOBILISATION.DWPI,EPAB,JPAB,USPT.	1
(L3 AND (IMMOBILIS\$ OR IMMOBILIZ\$)).USPT,JPAB,EPAB,DWPI.	102

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102 L5

L4 L3 and (immobilis\$ or immobiliz\$)

102 L4

L3 (cd28) same (okt3 or cd3) same (cultur\$ or stimulat\$) and ('t-cell\$' or 't-lymphocyte\$')

181 L3

DB=JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L2 (cd28) same (okt3 or cd3) same (cultur\$ or stimulat\$) same ('t-cell\$' or 't-lymphocyte\$')

7 L2

DB=USPT,PGPB; PLUR=YES; OP=ADJ

L1 (cd28) same (okt3 or cd3) same (cultur\$ or stimulat\$) same ('t-cell\$' or 't-lymphocyte\$')

95 L1

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 7 of 7 returned.**☐ 1. Document ID: US 6352694 B1

L7: Entry 1 of 7

File: DWPI

Mar 5, 2002

DERWENT-ACC-NO: 2002-314696

DERWENT-WEEK: 200278

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TITLE: Inducing T cell population to proliferate, useful in cancer therapy, comprises activating T cells by contacting T cells in vitro with immobilized anti-CD3 antibody and stimulating accessory molecule on T cell surface

INVENTOR: GRAY, G S; JUNE, C H ; NABEL, G J ; RENNERT, P D ; THOMPSON, C B

PRIORITY-DATA: 1995US-0403253 (March 10, 1995), 1994US-0253964 (June 3, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6352694 B1	March 5, 2002		071	A61K035/14

INT-CL (IPC): A61 K 35/14; A61 K 35/26; A61 K 35/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 2. Document ID: WO 9429436 A1 AU 9470521 A EP 700430 A1 JP 08511166 W AU 9889487 A AU 727438 B AU 200126464 A

L7: Entry 2 of 7

File: DWPI

Dec 22, 1994

DERWENT-ACC-NO: 1995-036466

DERWENT-WEEK: 200278

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TITLE: Method for inducing the proliferation of T cells - provides T cell population polyclonal w.r.t. antigen reactivity, may be used in the treatment of HIV

INVENTOR: GRAY, G S; JUNE, C H ; NABEL, G J ; RENNERT, P D ; THOMPSON, C B

PRIORITY-DATA: 1993US-0073223 (June 4, 1993), 2001AU-0026464 (March 12, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9429436 A1	December 22, 1994	E	071	C12N005/08
AU 9470521 A	January 3, 1995		000	
EP 700430 A1	March 13, 1996	E	000	
JP 08511166 W	November 26, 1996		086	C12N005/06
AU 9889487 A	January 7, 1999		000	C12N005/08
AU 727438 B	December 14, 2000		000	C12N005/08
AU 200126464 A	May 17, 2001		000	C12N005/08

INT-CL (IPC): A61K 35/14; A61K 37/02; A61K 38/03; A61K 39/395; A61K 45/05; C07K

7/06; C07K 7/08; C12N 5/06; C12N 5/08; C12N 5/10; C12N 5/20; C12N 15/02; C12P 21/08

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC	Draw Desc	Clip Img	Image
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☐ 3. Document ID: WO 9428912 A1 AU 9471077 A

L7: Entry 3 of 7

File: DWPI

Dec 22, 1994

DERWENT-ACC-NO: 1995-036097

DERWENT-WEEK: 199505

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TITLE: Inhibiting activation of CD28 pathway in T cells - and subsequent prodn. of lymphokine, by admin. of inhibitory ligand that can bind to stimulatory CD28 ligand, e.g. for treating autoimmune diseaseINVENTOR: JUNE, C H; THOMPSON, C B

PRIORITY-DATA: 1993US-0076071 (June 10, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9428912 A1	December 22, 1994	E	106	A61K035/14
AU 9471077 A	January 3, 1995		000	A61K035/14

INT-CL (IPC): A61K 35/14; A61K 37/00; A61K 39/00; C07K 3/00; C07K 13/00; C07K 15/00; C07K 17/00; C12P 21/06

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC	Draw Desc	Clip Img	Image
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☐ 4. Document ID: WO 9428123 A1 AU 9469187 A EP 701607 A1 AU 685811 B EP 701607 B1

L7: Entry 4 of 7

File: DWPI

Dec 8, 1994

DERWENT-ACC-NO: 1995-022795

DERWENT-WEEK: 200116

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TITLE: Mouse and its progeny with suppressed expression of the gene encoding CD28 on T cells - useful for screening drugs for their immunomodulatory effectsINVENTOR: MAK, T W; THOMPSON, C B

PRIORITY-DATA: 1993US-0067757 (May 26, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9428123 A1	December 8, 1994	E	047	C12N015/00
AU 9469187 A	December 20, 1994		000	C12N015/00
EP 701607 A1	March 20, 1996	E	000	C12N015/00
AU 685811 B	January 29, 1998		000	C12N015/00
EP 701607 B1	January 10, 2001	E	000	C12N015/00

INT-CL (IPC): A01 K 67/027; C12 N 5/10; C12 N 15/00; C12 N 15/12; G01 N 33/50

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RWC	Draw Desc	Image
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☐ 5. Document ID: WO 9428122 A1 ES 2155474 T3 AU 9467607 A EP 700435 A1 US 5557032 A JP 08509870 W US 5616491 A DE 69426564 E

L7: Entry 5 of 7

File: DWPI

Dec 8, 1994

DERWENT-ACC-NO: 1995-022794

DERWENT-WEEK: 200138

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TITLE: Mouse and its progeny with suppressed expression of the gene encoding CD45 on B cells - useful for screening drugs for their immunomodulatory effects

INVENTOR: MAK, T W; THOMPSON, C B ; PENNINGER, J M

PRIORITY-DATA: 1994US-0191225 (February 2, 1994), 1993US-0067767 (May 26, 1993), 1995US-0451691 (May 26, 1995), 1995US-0528363 (September 14, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9428122 A1	December 8, 1994	E	084	C12N015/00
ES 2155474 T3	May 16, 2001		000	C12N015/00
AU 9467607 A	December 20, 1994		000	
EP 700435 A1	March 13, 1996	E	000	
US 5557032 A	September 17, 1996		018	C12N015/00
JP 08509870 W	October 22, 1996		069	A01K067/027
US 5616491 A	April 1, 1997		017	C12N005/00
DE 69426564 E	February 15, 2001		000	C12N015/00

INT-CL (IPC): A01 K 67/027; A61 K 49/00; C07 H 21/04; C12 N 5/00; C12 N 5/10; C12 N 15/00; C12 N 15/09; C12 N 15/12; G01 N 33/50

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 6. Document ID: WO 9319767 A1 AU 9341011 A EP 637963 A1 JP 07508711 W EP 637963 A4 AU 684461 B

L7: Entry 6 of 7

File: DWPI

Oct 14, 1993

DERWENT-ACC-NO: 1993-336582

DERWENT-WEEK: 200278

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TITLE: T-cell mediated response regulation - comprises immuno regulation of CD 28 pathway using stimulatory ligand or down regulator

INVENTOR: JUNE, C H; THOMPSON, C B

PRIORITY-DATA: 1992US-0902467 (June 19, 1992), 1992US-0864805 (April 7, 1992), 1992US-0864807 (April 7, 1992), 1992US-0864866 (April 7, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9319767 A1	October 14, 1993	E	096	A61K037/00
AU 9341011 A	November 8, 1993		000	
EP 637963 A1	February 15, 1995	E	000	
JP 07508711 W	September 28, 1995		037	A61K039/395
EP 637963 A4	July 10, 1996		000	A61K037/00
AU 684461 B	December 18, 1997		000	C12N005/08

INT-CL (IPC): A61K 35/14; A61K 37/00; A61K 37/02; A61K 39/00; A61K 39/39; A61K 39/395; C07K 3/00; C07K 13/00; C07K 15/00 ; C07K 17/00; C12N 5/00; C12N 5/08; C12N 5/10; C12N 15/00; C12N 15/02; C12P 21/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☒ 7. Document ID: WO 9005541 A CA 2003455 A EP 445228 A JP 04502009 W IL 92382 A EP 445228 A4 EP 445228 B1 DE 68928915 E JP 2883201 B2 ES 2129020 T3 CA 2003455 C US 20010053361 A1

L7: Entry 7 of 7

File: DWPI

May 31, 1990

DERWENT-ACC-NO: 1990-193272

DERWENT-WEEK: 200278

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TITLE: Immuno-therapy - by selective regulation of T cell lymphokine prodn., using ligand, esp. antibody, which binds to extra-cellular CD28INVENTOR: JUNE, C H; LEDBETTER, J A ; LINDSTEN, T ; THOMPSON, C B

PRIORITY-DATA: 1988US-0275433 (November 23, 1988), 1992US-0902467 (June 19, 1992), 1994US-0324518 (October 17, 1994), 1995US-0476818 (June 7, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9005541 A	May 31, 1990		031	
CA 2003455 A	May 23, 1990		000	
EP 445228 A	September 11, 1991		000	
JP 04502009 W	April 9, 1992		013	A61K039/395
IL 92382 A	December 29, 1994		000	A61K039/395
EP 445228 A4	September 2, 1992		000	
EP 445228 B1	January 20, 1999	E	000	A61K039/395
DE 68928915 E	March 4, 1999		000	A61K039/395
JP 2883201 B2	April 19, 1999		015	A61K039/395
ES 2129020 T3	June 1, 1999		000	A61K039/395
CA 2003455 C	February 22, 2000	E	000	A61K039/395
US 20010053361 A1	December 20, 2001		000	A61K039/395

INT-CL (IPC): A01 N 63/00; A61 K 37/00; A61 K 38/17; A61 K 39/39; A61 K 39/395; A61 K 45/00; C12 N 5/00

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Term	Documents
CD28.DWPI.	113
CD28S	0
(CD28 AND 6).DWPI.	7
(L6 AND CD28).DWPI.	7

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*DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ*L8 june-carl\$18 L8*DB=DWPI; PLUR=YES; OP=ADJ*L7 L6 and cd287 L7L6 thompson.in.6123 L6*DB=USPT,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ*L5 L3 and (immobilis\$ or immobiliz\$)102 L5L4 L3 and (immobilis\$ or immobiliz\$)102 L4L3 (cd28) same (okt3 or cd3) same (cultur\$ or stimulat\$) and ('t-cell\$' or 't-lymphocyte\$')181 L3*DB=JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ*L2 (cd28) same (okt3 or cd3) same (cultur\$ or stimulat\$) same ('t-cell\$' or 't-lymphocyte\$')7 L2*DB=USPT,PGPB; PLUR=YES; OP=ADJ*L1 (cd28) same (okt3 or cd3) same (cultur\$ or stimulat\$) same ('t-cell\$' or 't-lymphocyte\$')95 L1

END OF SEARCH HISTORY

WEST

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Search Results - Record(s) 11 through 18 of 18 returned.

☐ 11. Document ID: WO 9634956 A1

L8: Entry 11 of 18

File: EPAB

Nov 7, 1996

PUB-NO: WO009634956A1

DOCUMENT-IDENTIFIER: WO 9634956 A1

TITLE: METHODS FOR MODULATING T CELL SURVIVAL BY MODULATING BCL-XL PROTEIN LEVEL

PUBN-DATE: November 7, 1996

INVENTOR-INFORMATION:

NAME

COUNTRY

JUNE, CARL H

THOMPSON, CRAIG B

INT-CL (IPC): C12 N 15/12; A61 K 48/00EUR-CL (EPC): C07K014/47

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 12. Document ID: WO 9533823 A1

L8: Entry 12 of 18

File: EPAB

Dec 14, 1995

PUB-NO: WO009533823A1

DOCUMENT-IDENTIFIER: WO 9533823 A1

TITLE: METHODS FOR SELECTIVELY STIMULATING PROLIFERATION OF T CELLS

PUBN-DATE: December 14, 1995

INVENTOR-INFORMATION:

NAME

COUNTRY

JUNE, CARL H

THOMPSON, CRAIG B

NABEL, GARY J

GRAY, GARY S

RENNERT, PAUL D

FREEMAN, GORDON J

INT-CL (IPC): C12 N 5/08; G01 N 33/569; A61 K 35/14; A61 K 48/00; C07 K 16/28; C12 N 5/20; C07 K 14/705EUR-CL (EPC): C07K014/705; C07K016/28, C07K016/28 , C07K016/28 , C07K016/28 , C12N005/06

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC	Draw Desc	Image
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☐ 13. Document ID: WO 9529673 A1

L8: Entry 13 of 18

File: EPAB

Nov 9, 1995

PUB-NO: WO009529673A1

DOCUMENT-IDENTIFIER: WO 9529673 A1

TITLE: METHODS FOR MODULATING T CELL RESPONSES BY MANIPULATING INTRACELLULAR SIGNAL TRANSDUCTION

PUBN-DATE: November 9, 1995

INVENTOR-INFORMATION:

NAME

COUNTRY

JUNE, CARL H

US

INT-CL (IPC): A61 K 31/365; A61 K 31/35; A61 K 31/00

EUR-CL (EPC): A61K031/00; A61K031/35, A61K031/365

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 14. Document ID: WO 9429436 A1

L8: Entry 14 of 18

File: EPAB

Dec 22, 1994

PUB-NO: WO009429436A1

DOCUMENT-IDENTIFIER: WO 9429436 A1

TITLE: METHODS FOR SELECTIVELY STIMULATING PROLIFERATION OF T CELLS

PUBN-DATE: December 22, 1994

INVENTOR-INFORMATION:

NAME

COUNTRY

JUNE, CARL H

THOMPSON, CRAIG B

NABEL, GARY J

GRAY, GARY S

RENNERT, PAUL D

INT-CL (IPC): C12N 5/08; A61K 35/14; C12N 5/20; C12P 21/08; A61K 37/02

EUR-CL (EPC): C07K016/28; A61K035/14, C07K016/28 , C07K014/705 , C07K016/28 , C12N005/06

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Clip Img	Image
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☐ 15. Document ID: WO 9428912 A1

L8: Entry 15 of 18

File: EPAB

Dec 22, 1994

PUB-NO: WO009428912A1

DOCUMENT-IDENTIFIER: WO 9428912 A1

TITLE: CD28 PATHWAY IMMUNOSUPPRESSION

PUBN-DATE: December 22, 1994

INVENTOR-INFORMATION:

NAME

COUNTRY

THOMPSON, CRAIG B

JUNE, CARL H

INT-CL (IPC): A61K 35/14; A61K 37/00; A61K 39/00; C07K 3/00; C07K 13/00; C07K 15/00;
C07K 17/00; C12P 21/06
EUR-CL (EPC): C07K014/705; C07K016/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 16. Document ID: WO 9423760 A1

L8: Entry 16 of 18

File: EPAB

Oct 27, 1994

PUB-NO: WO009423760A1
DOCUMENT-IDENTIFIER: WO 9423760 A1
TITLE: TRANSGENIC ANIMAL MODEL FOR AUTOIMMUNE DISEASES

PUBN-DATE: October 27, 1994

INVENTOR-INFORMATION:

NAME

COUNTRY

HARLAN, DAVID M

JUNE, CARL H

INT-CL (IPC): A61K 67/00; A61K 49/00; C07H 17/00; C12N 5/00; C12N 15/00; G01N 31/00;
G01N 33/48
EUR-CL (EPC): C07K014/08; A01K067/027, C07K014/705

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☐ 17. Document ID: WO 9319767 A1

L8: Entry 17 of 18

File: EPAB

Oct 14, 1993

PUB-NO: WO009319767A1
DOCUMENT-IDENTIFIER: WO 9319767 A1
TITLE: CD28 PATHWAY IMMUNOREGULATION

PUBN-DATE: October 14, 1993

INVENTOR-INFORMATION:

NAME

COUNTRY

THOMPSON, CRAIG B

JUNE, CARL H

INT-CL (IPC): A61K 37/00; A61K 35/14; C12N 5/00; C12N 15/00; C12P 21/02; C07K 3/00;
C07K 13/00; C07K 15/00; C07K 17/00
EUR-CL (EPC): C07K016/28; A61K035/14, A61K035/28 , A61K039/02 , A61K039/12 ,
C07K016/00 , C07K016/28 , A61K038/17 , A61K038/46 , C07K014/705 , C07K016/28 ,
C12N005/06

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMOC	Draw Desc	Image
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☒ 18. Document ID: WO 9005541 A1

L8: Entry 18 of 18

File: EPAB

May 31, 1990

PUB-NO: WO009005541A1
DOCUMENT-IDENTIFIER: WO 9005541 A1
TITLE: IMMUNOTHERAPY INVOLVING CD28 STIMULATION

PUBN-DATE: May 31, 1990

INVENTOR-INFORMATION:

NAME	COUNTRY
THOMPSON, CRAIG B	US
JUNE, CARL H	US
LEDBETTER, JEFFREY A	US
LINDSTEN, TULLIA	US

INT-CL (IPC): A61K 39/395
EUR-CL (EPC): C07K016/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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Generate Collection

Print

Term	Documents
JUNE-CARL\$	0
JUNE-CARL.DWPI,EPAB,JPAB,USPT,PGPB.	1
JUNE-CARL-H.DWPI,EPAB,JPAB,USPT,PGPB.	17
JUNE-CARL\$.USPT,PGPB,JPAB,EPAB,DWPI.	18
(JUNE-CARL\$).USPT,PGPB,JPAB,EPAB,DWPI.	18

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 18 returned.**☐ 1. Document ID: US 20020115214 A1

L8: Entry 1 of 18

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115214
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020115214 A1

TITLE: METHODS FOR SELECTIVELY STIMULATING PROLIFERATION OF T CELLS

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
JUNE, CARL H.	ROCKVILLE	MD	US	
THOMPSON, CRAIG B.	CHICAGO	IL	US	
NABEL, GARY J.	ANN ARBOR	MI	US	
GRAY, GARY S.	BROOKLINE	MA	US	
RENNERT, PAUL D.	HOLLISTON	MA	US	

US-CL-CURRENT: 435/372.3; 435/326[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#)☐ 2. Document ID: US 20020076407 A1

L8: Entry 2 of 18

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020076407
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020076407 A1

TITLE: METHOD FOR SELECTIVELY STIMULATING PROLIFERATION OF T CELLS

PUBLICATION-DATE: June 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
JUNE, CARL H.	ROCKVILLE	MD	US	
THOMPSON, CRAIG B.	CHICAGO	IL	US	
NABEL, GARY J.	ANN ARBOR	MI	US	
GRAY, GARY S.	BROOKLINE	MA	US	
RENNERT, PAUL D.	HOLLISTON	MA	US	
FREEMAN, GORDON J.	BROOKLINE	MA	US	

US-CL-CURRENT: 424/143.1; 424/154.1, 530/388.22, 530/388.75[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#)

☐ 3. Document ID: US 20010053361 A1

L8: Entry 3 of 18

File: PGPB

Dec 20, 2001

PGPUB-DOCUMENT-NUMBER: 20010053361
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010053361 A1

TITLE: IMMUNOTHERAPY INVOLVING CD28 STIMULATION

PUBLICATION-DATE: December 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
THOMPSON, CRAIG B.	ANN ARBOR	MI	US	
JUNE, CARL H.	ROCKVILLE	MD	US	
LEDBETTER, JEFFREY A.	SEATTLE	WA	US	
LINDSTEN, TULLIA	ANN ARBOR	MI	US	

US-CL-CURRENT: 424/143.1; 424/93.1, 424/93.7, 424/93.71, 435/375, 435/377

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Chem	Draw Desc	Image
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☐ 4. Document ID: US 6352694 B1

L8: Entry 4 of 18

File: USPT

Mar 5, 2002

US-PAT-NO: 6352694
DOCUMENT-IDENTIFIER: US 6352694 B1

TITLE: Methods for inducing a population of T cells to proliferate using agents which recognize TCR/CD3 and ligands which stimulate an accessory molecule on the surface of the T cells

DATE-ISSUED: March 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
June; Carl H.	Rockville	MD		
Thompson; Craig B.	Chicago	IL		
Nabel; Gary J.	Ann Arbor	MI		
Gray; Gary S.	Brookline	MA		
Rennert; Paul D.	Holliston	MA		

US-CL-CURRENT: 424/93.71; 424/534, 424/577, 424/578, 424/93.7, 435/2, 435/375, 435/377

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Chem	Draw Desc	Image
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☐ 5. Document ID: US 6143291 A

L8: Entry 5 of 18

File: USPT

Nov 7, 2000

US-PAT-NO: 6143291

DOCUMENT-IDENTIFIER: US 6143291 A

TITLE: Methods for modulating T cell survival by modulating bcl-X.sub.L protein level

DATE-ISSUED: November 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
June; Carl H.	Rockville	MD	20850	
Thompson; Craig B.	Chicago	IL	60637	

US-CL-CURRENT: 424/93.21; 435/320.1, 435/375, 435/455

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[R000](#) [Draw Desc](#) [Image](#)

☐ 6. Document ID: US 5948893 A

L8: Entry 6 of 18

File: USPT

Sep 7, 1999

US-PAT-NO: 5948893

DOCUMENT-IDENTIFIER: US 5948893 A

TITLE: Murine hybridoma and antibody binding to CD28 receptor secreted by the hybridoma and method of using the antibody

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
June; Carl H.	Rockville	MD		
Craighead; Nancy	Rockville	MD		

US-CL-CURRENT: 530/388.75; 435/334, 435/346, 530/388.22

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[R000](#) [Draw Desc](#) [Image](#)

☐ 7. Document ID: US 5858358 A

L8: Entry 7 of 18

File: USPT

Jan 12, 1999

US-PAT-NO: 5858358

DOCUMENT-IDENTIFIER: US 5858358 A

TITLE: Methods for selectively stimulating proliferation of T cells

DATE-ISSUED: January 12, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
June; Carl H.	Rockville	MD		
Thompson; Craig B.	Chicago	IL		
Nabel; Gary J.	Ann Arbor	MI		
Gray; Gary S.	Brookline	MA		
Rennert; Paul D.	Holliston	MA		
Freeman; Gordon J.	Brookline	MA		

US-CL-CURRENT: 424/130.1; 424/143.1, 424/154.1, 435/383, 530/387.1, 530/388.22,
530/388.7, 530/388.75

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 5718883 A

L8: Entry 8 of 18

File: USPT

Feb 17, 1998

US-PAT-NO: 5718883

DOCUMENT-IDENTIFIER: US 5718883 A

TITLE: Transgenic animal model for autoimmune diseases

DATE-ISSUED: February 17, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harlan; David M.	Potomac	MD		
June; Carl H.	Rockville	MD		

US-CL-CURRENT: 424/9.2; 514/2, 800/3, 800/9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 9. Document ID: WO 9924045 A1

L8: Entry 9 of 18

File: EPAB

May 20, 1999

PUB-NO: WO009924045A1

DOCUMENT-IDENTIFIER: WO 9924045 A1

TITLE: METHODS FOR TREATMENT OF TUMORS AND TUMOR CELLS USING EX VIVO ACTIVATED T CELLS

PUBN-DATE: May 20, 1999

INVENTOR-INFORMATION:

NAME	COUNTRY
LIEBOWITZ, DAVID N	US
JUNE, CARL	US

INT-CL (IPC): A61 K 35/14; A61 K 45/05

EUR-CL (EPC): A61K035/14; A61K045/05, C07K016/28 , C07K016/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 10. Document ID: WO 9634970 A1

L8: Entry 10 of 18

File: EPAB

Nov 7, 1996

PUB-NO: WO009634970A1

DOCUMENT-IDENTIFIER: WO 9634970 A1

TITLE: IMPROVED METHODS FOR TRANSFECTING T CELLS

PUBN-DATE: November 7, 1996

INVENTOR-INFORMATION:

NAME

COUNTRY

JUNE, CARL H

THOMPSON, CRAIG B

KIM, SUIL

INT-CL (IPC): C12 N 15/87; C07 K 16/28; A61 K 48/00

EUR-CL (EPC): C12N015/87; C07K016/28, C07K016/28 , C12N005/10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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WWW	Drawings	Clipping	Image
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Term	Documents
JUNE-CARL\$	0
JUNE-CARL.DWPI,EPAB,JPAB,USPT,PGPB.	1
JUNE-CARL-H.DWPI,EPAB,JPAB,USPT,PGPB.	17
JUNE-CARL\$.USPT,PGPB,JPAB,EPAB,DWPI.	18
(JUNE-CARL\$).USPT,PGPB,JPAB,EPAB,DWPI.	18

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st is in DialUnits

? b 410

05mar03 18:37:01 User208760 Session D2276.1

\$0.32 0.093 DialUnits File1

\$0.32 Estimated cost File1

\$0.32 Estimated cost this search

\$0.32 Estimated total session cost 0.093 DialUnits

File 410:Chronolog(R) 1981-2003/Jan

(c) 2003 The Dialog Corporation

Set Items Description

? set hi ;set hi

HIGHLIGHT set on as ''

HIGHLIGHT set on as ''

? begin 5,73,155,399

05mar03 18:37:05 User208760 Session D2276.2

\$0.00 0.073 DialUnits File410

\$0.00 Estimated cost File410

\$0.01 TELNET

\$0.01 Estimated cost this search

\$0.33 Estimated total session cost 0.166 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 5:Biosis Previews(R) 1969-2003/Mar W1

(c) 2003 BIOSIS

*File 5: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

File 73:EMBASE 1974-2003/Feb W4

(c) 2003 Elsevier Science B.V.

*File 73: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

File 155:MEDLINE(R) 1966-2003/Mar W1

(c) format only 2003 The Dialog Corp.

File 399:CA SEARCH(R) 1967-2003/UD=13810

(c) 2003 American Chemical Society

*File 399: Use is subject to the terms of your user/customer agreement.

Alert feature enhanced for multiple files, etc. See HELP ALERT.

Set Items Description

? s (cd28) (20n) (cd3 or okt3 or anti(w)cd3) and (T(w)cell? or t(w)lymphocyte?)

Processing

Processing

Processing

Processing

14328 CD28

61717 CD3

9491 OKT3

1271406 ANTI

61717 CD3

15735 ANTI(W)CD3

3747 CD28(20N) ((CD3 OR OKT3) OR ANTI(W)CD3)

4389885 T

9071984 CELL?

565394 T(W)CELL?

4389885 T

1019560 LYMPHOCYTE?

405971 T(W)LYMPHOCYTE?

S1 3571 (CD28) (20N) (CD3 OR OKT3 OR ANTI(W)CD3) AND (T(W)CELL? OR T(W)LYMPHOCYTE?)

? s s1 and (immobilis? or immubiliz?)

3571 S1

8742 IMMOBILIS?
7 IMMUBILIZ?
S2 6 S1 AND (IMMOBILIS? OR IMMUBILIZ?)
? rd s2
...completed examining records
S3 3 RD S2 (unique items)
? t s3/3/all

3/3/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

13558088 BIOSIS NO.: 200200186909
Functional impairment and skewed distribution of memory and effector
T-cell subsets following polyclonal expansion of human
T-lymphocytes for retrovirally mediated gene transfer.
AUTHOR: Duarte Rafael F(a); Chen Frederick E(a); Lamana Maruja; Rusakiewicz
Sylvie(a); Dunne Padraic; Bueren Juan; Prentice H Grant; Madrigal J
Alejandro(a)
AUTHOR ADDRESS: (a)Immunotherapy Group, Anthony Nolan Research Institute,
London**UK
JOURNAL: Blood 96 (11 Part 1):p421a-422a November 16, 2001
MEDIUM: print
CONFERENCE/MEETING: 43rd Annual Meeting of the American Society of
Hematology, Part 1 Orlando, Florida, USA December 07-11, 2001
ISSN: 0006-4971
RECORD TYPE: Abstract
LANGUAGE: English

3/3/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

11538245 BIOSIS NO.: 199800319577
A humanised therapeutic CD4 mAb inhibits TCR-induced IL-2, IL-4, and IL-10
secretion and expression of CD25, CD40L, and CD69.
AUTHOR: Woods Margaret(a); Guy Robert(a); Waldmann Herman; Glennie Martin;
Alexander Denis R(a)
AUTHOR ADDRESS: (a)T Cell Lab., Dep. Immunol., Babraham Inst. Cambridge CB2
4AT**UK
JOURNAL: Cellular Immunology 185 (2):p101-113 May 1, 1998
ISSN: 0008-8749
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

3/3/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

10155209 BIOSIS NO.: 199698610127
Tumour-infiltrating lymphocytes mediate lysis of autologous squamous cell
carcinomas of the head and neck.
AUTHOR: Hald Jesper(a); Rasmussen Niels; Claesson Mogens H
AUTHOR ADDRESS: (a)Dep. Otolaryngol., Univ. Copenhagen, Gentofte Hospital,
Niels Andersen's Vej 65, DK-2900, Heller**Denmark
JOURNAL: Cancer Immunology Immunotherapy 41 (4):p243-250 1995
ISSN: 0340-7004
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
? s s1 and py<1992

Processing

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          3571  S1
        30482670 PY<1992
      S4      283  S1 AND PY<1992
? rd s4
...examined 50 records (50)
...examined 50 records (100)
...examined 50 records (150)
...examined 50 records (200)
...examined 50 records (250)
...completed examining records
      S5      146  RD S4 (unique items)
? ds
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Set      Items  Description
S1        3571  (CD28) (20N) (CD3 OR OKT3 OR ANTI(W)CD3) AND (T(W)CELL? OR T-
              (W)LYMPHOCYTE?)
S2          6   S1 AND (IMMOBILIS? OR IMMUBILIZ?)
S3          3   RD S2 (unique items)
S4         283  S1 AND PY<1992
S5         146  RD S4 (unique items)
? s s5 and (immobilis? or immobiliz? or solid or crosslink? or cross(w)link?))
>>>Unmatched parentheses
? s s5 and (immobilis? or immobiliz? or solid or crosslink? or cross(w)link?)
      146  S5
      8742  IMMOBILIS?
     187518  IMMOBILIZ?
     585759  SOLID
     179142  CROSSLINK?
     727417  CROSS
     964649  LINK?
     104908  CROSS(W)LINK?
      S6      38  S5 AND (IMMOBILIS? OR IMMOBILIZ? OR SOLID OR CROSSLINK?
              OR CROSS(W)LINK?)
? rd s6
...completed examining records
      S7      38  RD S6 (unique items)
? t s7/3/all
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7/3/1      (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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```
07949797  BIOSIS NO.: 000093028895
REGULATION OF T-CELL DIFFERENTIATION BY CD2 AND CD28 ACCESSORY
MOLECULES
AUTHOR: DE JONG R; STOKKERS P; LAMME E; KOOL J M; BORST F; BROUWER M;
MIEDEMA F; VAN LIER R A W
AUTHOR ADDRESS: C/O CENTRAL LAB., NETH. RED CROSS BLOOD TRANSFUSION SERV.,
P.O. BOX 9406, 1006 AK AMSTERDAM, NETH.
JOURNAL: IMMUNOLOGY 74 (2). 1991. 175-182. 1991
FULL JOURNAL NAME: Immunology
CODEN: IMMUA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH
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7/3/2      (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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07887538  BIOSIS NO.: 000092136621
TARGET CELL-INDUCED T CELL ACTIVATION WITH BISPECIFIC AND
TRISPECIFIC ANTIBODY FRAGMENTS
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AUTHOR: JUNG G; FREIMANN U; VON MARSCHALL Z; REISFELD R A; WILMANNS W
AUTHOR ADDRESS: MED. KLIN. III, UNIV. MUENCHEN, KLIN. GROSSHADERN, D-8000
MUENCHEN, FRG.
JOURNAL: EUR J IMMUNOL 21 (10). 1991. 2431-2436. 1991
FULL JOURNAL NAME: European Journal of Immunology
CODEN: EJIMA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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07866446 BIOSIS NO.: 000092125812
MODULATION OF **T-CELL** ACTIVATION THROUGH PROTEIN KINASE
C-DEPENDENT OR A-DEPENDENT SIGNALLING PATHWAYS SYNERGISTICALLY INCREASES
HUMAN IMMUNODEFICIENCY VIRUS LONG TERMINAL REPEAT INDUCTION BY
CYTOMEGALOVIRUS IMMEDIATE-EARLY PROTEINS
AUTHOR: PAYA C V; VIRELIZIER J-L; MICHELSON S
AUTHOR ADDRESS: UNITE IMMUNOL. VIRALE, DEP. DES RETROVIRUS, INST. PASTEUR,
75724 PARIS CEDEX 15, FR.
JOURNAL: J VIROL 65 (10). 1991. 5477-5484. 1991
FULL JOURNAL NAME: Journal of Virology
CODEN: JOVIA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/4 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

07774847 BIOSIS NO.: 000092078218
BISPECIFIC-MONOCLONAL-ANTIBODY-DIRECTED LYSIS OF OVARIAN CARCINOMA CELLS BY
ACTIVATED HUMAN **T LYMPHOCYTES**
AUTHOR: MOLLER S; REISFELD R A
AUTHOR ADDRESS: DEP. IMMUNOL., SCRIPPS CLIN. RES. FOUNDATION, 10666 TORREY
PINES ROAD, LA JOLLA, CALIF. 92037.
JOURNAL: CANCER IMMUNOL IMMUNOTHER 33 (4). 1991. 210-216. 1991
FULL JOURNAL NAME: Cancer Immunology Immunotherapy
CODEN: CIIMD
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/5 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

07544244 BIOSIS NO.: 000091096322
THE CD28 LIGAND B7-BB1 PROVIDES COSTIMULATORY SIGNAL FOR ALLOACTIVATION OF
CD4-POSITIVE **T CELLS**
AUTHOR: KOULOVA L; CLARK E A; SHU G; DUPONT B
AUTHOR ADDRESS: IMMUNOGENETICS LAB., BOX 41, MEMORIAL SLOAN-KETTERING
CANCER CENT., 1275 YORK AVENUE, NEW YORK, N.Y. 10021.
JOURNAL: J EXP MED 173 (3). 1991. 759-762. 1991
FULL JOURNAL NAME: Journal of Experimental Medicine
CODEN: JEMEA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/6 (Item 6 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)
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07544042 BIOSIS NO.: 000091096120
SIGNAL TRANSDUCTION VIA CD4 CD8 AND CD28 IN MATURE AND IMMATURE THYMOCYTES
IMPLICATIONS FOR THYMIC SELECTION
AUTHOR: TURKA L A; LINSLEY P S; PAINE R III; SCHIEVEN G L; THOMPSON C B;
LEDBETTER J A
AUTHOR ADDRESS: MSRB-II, ROOM 1560, UNIV. MICHIGAN MED. CENT., 1150 WEST
MEDICAL CENTER DRIVE, ANN ARBOR, MICH. 48109-0676.
JOURNAL: J IMMUNOL 146 (5). 1991. 1428-1436. 1991
FULL JOURNAL NAME: Journal of Immunology
CODEN: JOIMA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/7 (Item 7 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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07479247 BIOSIS NO.: 000091063966
ACTIVATION AND EXPANSION OF TUMOR-INFILTRATING LYMPHOCYTES BY ANTI-
CD3 AND ANTI-CD28 MONOCLONAL ANTIBODIES
AUTHOR: NIJHUIS E W P; V D WIEL-VAN KEMENADE E; FIGDOR C G; VAN LIER R A W
AUTHOR ADDRESS: CENTRAL LAB. NETH. RED CROSS BLOOD TRANSFUSION SERV., P.O.
BOX 9406, 1006 AK AMSTERDAM, NETH.
JOURNAL: CANCER IMMUNOL IMMUNOTHER 32 (4). 1990. 245-250. 1990
FULL JOURNAL NAME: Cancer Immunology Immunotherapy
CODEN: CIIMD
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/8 (Item 8 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

07356469 BIOSIS NO.: 000090135379
MITOGENIC ACTIVITY OF ANTI-CD28 MOAB CLB-281 ON PERIPHERAL BLOOD
MONONUCLEAR CELLS AND ITS COOPERATION WITH OTHER ANTI-T CELLS
MOA6 IN THE ACTIVATION OF PURIFIED T LYMPHOCYTES
AUTHOR: DE FELICE M; GIARRUSSO P C; LAMBERTI A; TURCO M C; VALERIO G; VAN
LIER R A W; YANG S Y; FERRONE S; VENUTA S
AUTHOR ADDRESS: INST. EXP. CLIN. ONCOL., FAC. MED. SURG., CATANZARO UNIV.
REGGIO CALABRIA, CATANZARO, ITALY.
JOURNAL: TISSUE ANTIGENS 36 (1). 1990. 12-18. 1990
FULL JOURNAL NAME: Tissue Antigens
CODEN: TSANA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/9 (Item 9 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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07343033 BIOSIS NO.: 000090122935
HUMAN T CELL ACTIVATION SYNERGY BETWEEN CD73
ECTO-5'-NUCLEOTIDASE AND SIGNALS DELIVERED THROUGH CD3 AND CD2 MOLECULES
AUTHOR: MASSAIA M; PERRIN L; BIANCHI A; RUEDI J; ATTISANO C; ALTIERI D;
RIJKERS G T; THOMPSON L F
AUTHOR ADDRESS: SEZIONE EMATOLOGIA, DEP. MED. ONCOLOGIA SPERIMENTALE,
OSPEDALE MOLINETTE, VIA GENOVA 3, 10126 TORINO, ITALY.

JOURNAL: J IMMUNOL 145 (6). 1990. 1664-1674. 1990
FULL JOURNAL NAME: Journal of Immunology
CODEN: JOIMA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/10 (Item 10 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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07260438 BIOSIS NO.: 000090040314
HYPORESPONSIVENESS OF NAIVE CD45RA-POSITIVE HUMAN T CELLS TO
MULTIPLE RECEPTOR-MEDIATED STIMULI BUT AUGMENTATION OF RESPONSES BY
CO-STIMULI
AUTHOR: HORGAN K J; VAN SEVENTER G S; SHIMIZU Y; SHAW S
AUTHOR ADDRESS: EXP. IMMUNOL. BRANCH, NCI, NIH, BUILD. 10, ROOM 4B17,
BETHESDA, MD. 20892, USA.
JOURNAL: EUR J IMMUNOL 20 (5). 1990. 1111-1118. 1990
FULL JOURNAL NAME: European Journal of Immunology
CODEN: EJIMA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/11 (Item 11 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

07220957 BIOSIS NO.: 000090000811
CD28 LIGATION IN T-CELL ACTIVATION EVIDENCE FOR TWO SIGNAL
TRANSDUCTION PATHWAYS
AUTHOR: LEDBETTER J A; IMBODEN J B; SCHIEVEN G L; GROSMARE L S;
RABINOVITCH P S; LINDSTEN T; THOMPSON C B; JUNE C H
AUTHOR ADDRESS: DEP. PATHOL., UNIV. WASHINGTON, SEATTLE, WA.
JOURNAL: BLOOD 75 (7). 1990. 1531-1539. 1990
FULL JOURNAL NAME: Blood
CODEN: BLOOA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/12 (Item 12 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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07013061 BIOSIS NO.: 000089104945
CD28 IS AN INDUCIBLE T CELL SURFACE ANTIGEN THAT
TRANSDUCES A PROLIFERATIVE SIGNAL IN CD3-POSITIVE MATURE THYMOCYTES
AUTHOR: TURKA L A; LEDBETTER J A; LEE K; JUNE C H; THOMPSON C B
AUTHOR ADDRESS: MSRB-II, ROOM 1560, 1150 WEST MEDICAL CENTER DR., UNIV.
MICH. MED. CENT., ANN ARBOR, MI 48109-0676.
JOURNAL: J IMMUNOL 144 (5). 1990. 1646-1653. 1990
FULL JOURNAL NAME: Journal of Immunology
CODEN: JOIMA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/13 (Item 13 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

06884396 BIOSIS NO.: 000089038324

REGULATION OF INTERLEUKIN 3 GENE INDUCTION IN NORMAL HUMAN T
CELLS

AUTHOR: GUBA S C; STELLA G; TURKA L A; JUNE C H; THOMPSON C B; EMERSON S G
AUTHOR ADDRESS: MSRB I, ROOM 5504, 1150 WEST MEDICAL CENTER DRIVE, ANN
ARBOR, MICHIGAN 48109.
JOURNAL: J CLIN INVEST 84 (6). 1989. 1701-1706. 1989
FULL JOURNAL NAME: Journal of Clinical Investigation
CODEN: JCINA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/14 (Item 14 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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06810608 BIOSIS NO.: 000088120051
STIMULATION VIA THE CD3 AND CD28 MOLECULES INDUCES
RESPONSIVENESS TO IL-4 IN CD4-POSITIVE CD29-POSITIVE CD45R-NEGATIVE
MEMORY T LYMPHOCYTES
AUTHOR: DAMLE N K; DOYLE L V
AUTHOR ADDRESS: DEP. IMMUNOL., CETUS CORP., 1400 FIFTY-THIRD ST.,
EMERYVILLE, CALIF. 94608, USA.
JOURNAL: J IMMUNOL 143 (6). 1989. 1761-1767. 1989
FULL JOURNAL NAME: Journal of Immunology
CODEN: JOIMA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/15 (Item 15 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

06776122 BIOSIS NO.: 000088085558
CD44 CONTRIBUTES TO T CELL ACTIVATION
AUTHOR: HUET S; GROUX H; CAILLOU B; VALENTIN H; PRIEUR A M; BERNARD A
AUTHOR ADDRESS: LABORATOIRE D'IMMUNOLOGIE DES TUMEURS DE L'ENFANT, INSTITUT
GUSTAVE-ROUSSY, 94805 VILLEJUIF CEDEX.
JOURNAL: J IMMUNOL 143 (3). 1989. 798-801. 1989
FULL JOURNAL NAME: Journal of Immunology
CODEN: JOIMA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/16 (Item 16 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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06740363 BIOSIS NO.: 000088049793
HUMAN IMMUNODEFICIENCY VIRUS INFECTION OF HELPER T CELL CLONES
EARLY PROLIFERATIVE DEFECTS DESPITE INTACT ANTIGEN-SPECIFIC RECOGNITION
AND INTERLEUKIN 4 SECRETION
AUTHOR: LAURENCE J; FRIEDMAN S M; CHARTASH E K; CROW M K; POSNETT D N
AUTHOR ADDRESS: DIV. HEMATOL.-ONCOL., NEW YORK HOSP.-CORNELL MED. CENT.,
525 EAST 68TH ST., NEW YORK, N.Y. 10021.
JOURNAL: J CLIN INVEST 83 (6). 1989. 1843-1848. 1989
FULL JOURNAL NAME: Journal of Clinical Investigation
CODEN: JCINA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/17 (Item 17 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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06729118 BIOSIS NO.: 000088038544
ACTIVATION OF HUMAN **T CELL** CLONES AND JURKAT CELLS BY
CROSS-LINKING CLASS I MHC MOLECULES
AUTHOR: GEPPERT T D; WACHOLTZ M C; PATEL S S; LIGHTFOOT E; LIPSKY P E
AUTHOR ADDRESS: HAROLD C. SIMMONS ARTHRITIS RES. CENT., DEP. INTERN. MED.,
UNIV. TEX. SOUTHWESTERN MED. CENT., DALLAS, TEX. 75235.
JOURNAL: J IMMUNOL 142 (11). 1989. 3763-3772. **1989**
FULL JOURNAL NAME: Journal of Immunology
CODEN: JOIMA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/18 (Item 18 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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06695573 BIOSIS NO.: 000088004991
THE ANTI-**T CELL** MONOCLONAL ANTIBODY 9.3 ANTI-**CD28**
PROVIDES A HELPER SIGNAL AND BYPASSES THE NEED FOR ACCESSORY CELLS IN
T CELL ACTIVATION WITH **IMMOBILIZED ANTI-CD3**
AND MITOGENS
AUTHOR: BAROJA M L; LORRE K; VAN VAECK F; CEUPPENS J L
AUTHOR ADDRESS: LAB. OF CLIN. IMMUNOL., UNIV. HOSP., CAPUCIJNENVOER 33,
3000 LEUVEN, BELGIUM.
JOURNAL: CELL IMMUNOL 120 (1). 1989. 205-217. **1989**
FULL JOURNAL NAME: Cellular Immunology
CODEN: CLIMB
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/19 (Item 19 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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06651216 BIOSIS NO.: 000087093393
CD28 ACTIVATION PATHWAY REGULATES THE PRODUCTION OF MULTIPLE **T-CELL**-DERIVED LYMPHOKINES-CYTOKINES
AUTHOR: THOMPSON C B; LINDSTEN T; LEDBETTER J A; KUNKEL S L; YOUNG H A;
EMERSON S G; LEIDEN J M; JUNE C H
AUTHOR ADDRESS: HOWARD HUGHES MED. INST., UNIV. MICH., ANN ARBOR, MICH.
48109.
JOURNAL: PROC NATL ACAD SCI U S A 86 (4). 1989. 1333-1337. **1989**
FULL JOURNAL NAME: Proceedings of the National Academy of Sciences of the
United States of America
CODEN: PNASA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/20 (Item 20 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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06640571 BIOSIS NO.: 000087082740
ENHANCED TRANSMEMBRANE SIGNALLING ACTIVITY OF MONOCLONAL ANTIBODY
HETEROCONJUGATES SUGGESTS MOLECULAR INTERACTIONS BETWEEN RECEPTORS ON THE
T CELL SURFACE
AUTHOR: LEDBETTER J A; NORRIS N A; GROSSMANN A; GROSMIRE L S; JUNE C H;

UCKUN F M; COSAND W L; RABINOVITCH P S
AUTHOR ADDRESS: ONCOGEN, 3005 FIRST AVE., SEATTLE, WA 98121.
JOURNAL: MOL IMMUNOL 26 (2). 1989. 137-146. 1989
FULL JOURNAL NAME: Molecular Immunology
CODEN: MOIMD
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/21 (Item 21 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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06595826 BIOSIS NO.: 000087037988
CLONAL ANALYSIS OF FUNCTIONALLY DISTINCT HUMAN CD4-POSITIVE T
CELLS SUBSETS
AUTHOR: ROTTEVEEL F T M; KOKKELINK I; VAN LIER R A W; KUENEN B; MEAGER A;
MIEDEMA F; LUCAS C J
AUTHOR ADDRESS: CENT. LAB., NETH. RED CROSS BLOOD TRANSFUSION SERV., P.O.
BOX 1006 AK AMSTERDAM, NETH.
JOURNAL: J EXP MED 168 (5). 1988. 1659-1674. 1988
FULL JOURNAL NAME: Journal of Experimental Medicine
CODEN: JEMEA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/22 (Item 22 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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06595741 BIOSIS NO.: 000087037903
CD45 REGULATES SIGNAL TRANSDUCTION AND LYMPHOCYTE ACTIVATION BY SPECIFIC
ASSOCIATION WITH RECEPTOR MOLECULES ON T OR B CELLS
AUTHOR: LEDBETTER J A; TONKS N K; FISCHER E H; CLARK E A
AUTHOR ADDRESS: ONCOGEN CORP., 3005 FIRST AVE., SEATTLE, WASH. 98121.
JOURNAL: PROC NATL ACAD SCI U S A 85 (22). 1988. 8628-8632. 1988
FULL JOURNAL NAME: Proceedings of the National Academy of Sciences of the
United States of America
CODEN: PNASA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/23 (Item 23 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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06192282 BIOSIS NO.: 000086026464
ACTIVATION OF T LYMPHOCYTES BY IMMOBILIZED MONOCLONAL
ANTIBODIES TO CD3 REGULATORY INFLUENCES OF MONOCLONAL ANTIBODIES TO
ADDITIONAL T CELL SURFACE DETERMINANTS
AUTHOR: GEPPERT T D; LIPSKY P E
AUTHOR ADDRESS: DEP. INTERNAL MED., UTHSCD, SOUTHWESTERN MED. SCH., 5323
HARRY HINES BLVD., DALLAS, TX 75235.
JOURNAL: J CLIN INVEST 81 (5). 1988. 1497-1505. 1988
FULL JOURNAL NAME: Journal of Clinical Investigation
CODEN: JCINA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

7/3/24 (Item 24 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

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06189046 BIOSIS NO.: 000086023228

SIGNAL TRANSDUCTION THROUGH CD4 RECEPTORS STIMULATORY VS. INHIBITORY
ACTIVITY IS REGULATED BY CD4 PROXIMITY TO THE CD3-T CELL
RECEPTOR

AUTHOR: LEDBETTER J A; JUNE C H; RABINOVITCH P S; GROSSMANN A; TSU T T;
IMBODEN J B

AUTHOR ADDRESS: 3005 FIRST AVE., SEATTLE, WASH. 98121.

JOURNAL: EUR J IMMUNOL 18 (4). 1988. 525-532. 1988

FULL JOURNAL NAME: European Journal of Immunology

CODEN: EJIMA

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

7/3/25 (Item 25 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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06148412 BIOSIS NO.: 000085111564

DIFFERENTIAL REGULATORY SIGNALS DELIVERED BY ANTIBODY BINDING TO THE CD28
TP44 MOLECULE DURING THE ACTIVATION OF HUMAN T LYMPHOCYTES

AUTHOR: DAMLE N K; DOYLE L V; GROSMARE L S; LEDBETTER J A

AUTHOR ADDRESS: CETUS CORPORATION, 1400 FIFTY-THIRD ST., EMERYVILLE, CALIF.
94608.

JOURNAL: J IMMUNOL 140 (6). 1988. 1753-1761. 1988

FULL JOURNAL NAME: Journal of Immunology

CODEN: JOIMA

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

7/3/26 (Item 26 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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06074618 BIOSIS NO.: 000085037767

T-CELL PROLIFERATION INVOLVING THE CD28 PATHWAY IS ASSOCIATED
WITH CYCLOSPORINE-RESISTANT INTERLEUKIN 2 GENE EXPRESSION

AUTHOR: JUNE C H; LEDBETTER J A; GILLESPIE M M; LINDSTEN T; THOMPSON C B

AUTHOR ADDRESS: NAVAL MED. RES. INST., BETHESDA, MD. 20814.

JOURNAL: MOL CELL BIOL 7 (12). 1987. 4472-4481. 1987

FULL JOURNAL NAME: Molecular and Cellular Biology

CODEN: MCEBD

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

7/3/27 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

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04835587 EMBASE No: 1991330323

Modulation of T-cell activation through protein kinase C- or
A-dependent signalling pathways synergistically increases human
immunodeficiency virus long terminal repeat induction by cytomegalovirus
immediate-early proteins

Paya C.V.; Virelizier J.-L.; Michelson S.

Unite d'Immunologie Virale, Departement des Retrovirus, Institut
Pasteur, 75724 Paris Cedex 15 France

Journal of Virology (J. VIROL.) (United States) 1991, 65/10
(5477-5484)

CODEN: JOVIA ISSN: 0022-538X

DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

7/3/28 (Item 2 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2003 Elsevier Science B.V. All rts. reserv.

04803083 EMBASE No: 1991297819
Target cell-induced **T cell** activation with bi- and
trispecific antibody fragments
Jung G.; Freimann U.; Von Marschall Z.; Reisfeld R.A.; Wilmanns W.
Medizinische Klinik III, Universitat Munchen, Klinikum Grosshadern, D-8000
Munchen Germany
European Journal of Immunology (EUR. J. IMMUNOL.) (Germany) 1991,
21/10 (2431-2435)
CODEN: EJIMA ISSN: 0014-2980
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

7/3/29 (Item 3 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2003 Elsevier Science B.V. All rts. reserv.

04618099 EMBASE No: 1991112142
The CD28 ligand B7/BB1 provides costimulatory signal for alloactivation
of CD4sup + **T cells**
Koulova L.; Clark E.A.; Shu G.; Dupont B.
Human Immunogenetics Lab., Memorial Sloan-Kettering, Cancer Center, 1275
York Avenue, New York, NY 10021 United States
Journal of Experimental Medicine (J. EXP. MED.) (United States) 1991,
173/3 (759-762)
CODEN: JEMEA ISSN: 0022-1007
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

7/3/30 (Item 4 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2003 Elsevier Science B.V. All rts. reserv.

04388316 EMBASE No: 1990276402
Mitogenic activity of anti-CD28 MoAb CLB-CD28/1 on peripheral blood
mononuclear cells and its cooperation with other anti-**T cells**
MoAb in the activation of purified **T lymphocytes**
De Felice M.; Giarrusso P.C.; Lamberti A.; Turco M.C.; Valerio G.; Van
Lier R.A.W.; Yang S.Y.; Ferrone S.; Venuta S.
Inst. Experim./Clin. Oncology, Fac. of Medicine and Surgery, University
of Reggio Calabria, Catanzaro Italy
Tissue Antigens (TISSUE ANTIGENS) (Denmark) 1990, 36/1 (12-18)
CODEN: TSANA ISSN: 0001-2815
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

7/3/31 (Item 5 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2003 Elsevier Science B.V. All rts. reserv.

04323868 EMBASE No: 1990206424
Hyporesponsiveness of 'naive' (CD45RASup +) human **T cells** to
multiple receptor-mediated stimuli but augmentation of responses by
co-stimuli

Horgan K.J.; Van Seventer G.A.; Shimizu Y.; Shaw S.
Experimental Immunology Branch, NCI, NIH, Building 10, Room
4B17, Bethesda, MD 20892 United States
European Journal of Immunology (EUR. J. IMMUNOL.) (Germany) 1990, 20/5
(1111-1118)
CODEN: EJIMA ISSN: 0014-2980
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

7/3/32 (Item 6 from file: 73)
DIALOG(R)File 73:EMBASE
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04211794 EMBASE No: 1990094336
CD28 is an inducible T cell surface antigen that transduces a
proliferative signal in CD3sup + mature thymocytes
Turka L.A.; Ledbetter J.A.; Lee K.; June C.H.; Thompson C.B.
Department of Medicine, University of Michigan, Ann Arbor, MI United
States
Journal of Immunology (J. IMMUNOL.) (United States) 1990, 144/5
(1646-1653)
CODEN: JOIMA ISSN: 0022-1767
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

7/3/33 (Item 7 from file: 73)
DIALOG(R)File 73:EMBASE
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04072185 EMBASE No: 1989241227
Stimulation via the CD3 and CD28 molecules induces
responsiveness to IL-4 in CD4sup +CD29sup +CD45Rsup - memory T
lymphocytes
Damle N.K.; Doyle L.V.
Department of Immunology, CETUS Corporation, Emeryville, CA 94608 United
States
Journal of Immunology (J. IMMUNOL.) (United States) 1989, 143/6
(1761-1767)
CODEN: JOIMA ISSN: 0022-1767
DOCUMENT TYPE: Journal
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

7/3/34 (Item 8 from file: 73)
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03979898 EMBASE No: 1989148894
Human immunodeficiency virus infection of helper t celkl clones. Early
proliferative defects despite intact antigen-specific recognition and
interleukin 4 secretion
Laurence J.; Friedman S.M.; Chartash E.K.; Crow M.K.; Posnett D.N.
Laboratory for Acquired Immunodeficiency Syndrome, Virus Research
Division of Hematology-Oncology, New York Hospital-Cornell Medical
Center, New York, NY 10021 United States
Journal of Clinical Investigation (J. CLIN. INVEST.) (United States)
1989, 83/6 (1843-1848)
CODEN: JCINA ISSN: 0021-9738
DOCUMENT TYPE: Journal
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

7/3/35 (Item 9 from file: 73)
DIALOG(R)File 73:EMBASE
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03854300 EMBASE No: 1989023255
Clonal analysis of functionally distinct human CD4sup + T
cell subsets
Rotteveel F.T.M.; Kokkelink I.; Van Lier R.A.W.; Kuenen B.; Meager A.;
Miedema F.; Lucas C.J.
Central Laboratory of the Netherlands Red Cross Blood Transfusion
Service, University of Amsterdam, 1006 AK Amsterdam Netherlands
Journal of Experimental Medicine (J. EXP. MED.) (United States) 1988,
168/5 (1659-1673)
CODEN: JEMEA ISSN: 0022-1007
DOCUMENT TYPE: Journal
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

7/3/36 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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07008333 91319728 PMID: 1650475
B-cell surface antigen.B7 provides a costimulatory signal that induces
T cells to proliferate and secrete interleukin 2.
Gimmi C D; Freeman G J; Gribben J G; Sugita K; Freedman A S; Morimoto C;
Nadler L M
Department of Medicine, Dana-Farber Cancer Institute, Harvard Medical
School, Boston, MA 02115.
Proceedings of the National Academy of Sciences of the United States of
America (UNITED STATES) Aug 1 1991, 88 (15) p6575-9, ISSN
0027-8424 Journal Code: 7505876
Contract/Grant No.: AI29530; AI; NIAID; AR33713; AR; NIAMS; CA40216; CA;
NCI; +
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

7/3/37 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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06293373 89381305 PMID: 2570801
Stimulation via the CD3 and CD28 molecules induces
responsiveness to IL-4 in CD4+CD29+CD45R- memory T lymphocytes.
Damle N K; Doyle L V
Department of Immunology, CETUS Corporation, Emeryville, CA 94608.
Journal of immunology (Baltimore, Md. : 1950) (UNITED STATES) Sep 15
1989, 143 (6) p1761-7, ISSN 0022-1767 Journal Code: 2985117R
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

7/3/38 (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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115181358 CA: 115(17)181358j PATENT
Method of activating cytolytic activity of lymphocytes using anti-CD28

antibody

INVENTOR(AUTHOR): Ledbetter, Jeffery A.

LOCATION: USA

ASSIGNEE: Bristol-Myers Squibb Co.

PATENT: European Pat. Appl. ; EP 440373 A1 DATE: 910807

APPLICATION: EP 91300554 (910124) *US 471934 (900125)

PAGES: 17 pp. CODEN: EPXXDW LANGUAGE: English CLASS: C12N-005/08A;
A61K-035/14B DESIGNATED COUNTRIES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT;
LI; LU; NL; SE

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